Facility Well Name CHS Refinery #4 **UIC Permit #** KS-01-113-011 **Month** January **Year** 2024

Submitted 02/21/2024 **Approved** 03/04/2024 **KOLAR Document ID** 1756037

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 34,286

			Annulus Pressure psig min 60		Injection Pressure		
	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Gauge psig	Cont. Record psig	Gauge psig	Cont. Record psig	Amount Added to Seal Pot
Monthly Average	13,858	9.62	99	100	8.9	4.8	
Monthly Maximum	16,916	11.74	110	109	16.0	12.1	
Monthly Minimum	9,643	6.69	80	93	0.0	2.4	
Monthly Total	429,603						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
112.68	89.61	13.45	0.00

Comments:

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Daily Recorder Data

Day	Time 24 hr	Injection Volume Barrels Per Day	Injection Rate Barrels Per Minute	Annulus Pressure (Gauge) psig	Annulus Pressure (Continuous Recorder) psig	Injection Pressure (Gauge) + / -	Injection Pressure (Continuous Recorder) + / -	Seal Pot Fluid Level inches	Type of Fluid Added to Seal Pot	Amount of Fluid Added to Seal Pot gallons	Initials of Collector of Field Recordings		
1	07:00	9,947.55	6.90	96	95.2	10	6.3	3			MH		
2	07:00	9,946.31	6.90	98	96.5	11	6.7	3			MH		
3	07:00	11,481.74	7.98	100	99.4	11	6.4	3			MB		
4	07:00	12,502.60	8.69	100	100.7	7	3.1	5			MB		
5	07:00	12,556.45	8.71	102	103.6	7	3.1	2			CG		
6	07:00	12,599.86	8.74	102	103.9	8	3.5	2			CG		
7	07:00	12,616.12	8.76	102	104.4	9	3.8	1			CG		
8	07:00	12,600.33	8.76	102	104.2	0	6.0	1			TY		
9	07:00	12,613.79	8.76	105	106.2	1	3.8	1			TP		
10	07:00	12,656.24	8.79	102	104.0	10	3.8	1			CG		
11	07:00	12,762.05	8.86	104	102.9	8	2.4	1			CG		
12	07:00	12,807.26	8.90	104	105.7	10	4.0	1			TY		
13	07:00	11,575.90	8.05	110	107.3	9	3.3	1			TY		
14	07:00	13,134.98	9.12	100	107.4	16	12.1	1			BD		
15	07:00	9,643.31	6.69	102	106.0	10	4.1	2			NB		
16	07:00	12,647.69	8.79	105	108.9	10	4.3	2			NB		
17	07:00	12,693.50	8.81	100	104.3	10	4.4	1			BD		
18	07:00	12,729.64	8.83	100	103.0	10	4.6	1			BD		
19	07:00	11,913.43	8.26	100	102.1	10	4.0	2			NB		
20	07:00	15,325.40	10.64	98	97.3	10	4.1	2			NB		
21	07:00	16,722.45	11.62	95	94.4	10	4.3	2			NB		
22	07:00	16,728.88	11.62	96	96.4	9	4.1	1			BD		
23	07:00	16,731.24	11.62	90	93.3	7	4.1	1			MB		
24	07:00	16,735.05	11.62	94	93.2	9	5.2	1			NB		
25	07:00	16,740.31	11.62	94	92.6	9	4.7	1			NB		
26	07:00	16,785.62	11.67	80	94.9	9	4.8	1			MB		
27	07:00	16,824.36	11.69	95	94.6	8	4.7	1			MH		
28	07:00	16,878.00	11.71	95	93.5	9	4.6	1			MH		
29	07:00	16,890.79	11.74	96	94.9	10	5.8	1			CG		
30	07:00	16,896.52	11.74	96	95.5	9	5.8	1			CG		
31	07:00	16,915.69	11.74	96	96.3	9	5.8	2			BD		

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Weekly Injectate Samples

Kansas Lab Certificate Number E-10116

Week	Temperature		pH		Chloride				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	79.70	01/02/2024	7.28	01/02/2024	650.0	01/02/2024	01/05/2024		
2	76.00	01/09/2024	7.30	01/09/2024	652.0	01/09/2024	01/31/2024		
3	79.00	01/16/2024	6.95	01/16/2024	588.0	01/16/2024	01/31/2024		
4	81.10	01/23/2024	6.71	01/23/2024	613.0	01/23/2024	01/31/2024		
5	83.60	01/30/2024	7.07	01/30/2024	620.0	01/30/2024	02/05/2024		

No monthly injectate samples required.